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L1	408	380/255.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 14:59
L2	93	380/263.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 15:41
L3	118	380/269.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 15:42
L4	599	382/248.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 15:42
L5	90	382/249.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 15:57
L6	9	("discrete wavelet transformation" or "DWT") same (encrypt$3 or encipher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:04
L7	121	("discrete wavelet transformation" or "DWT") and (encrypt$3 or encipher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:04
L8	2	(l1 or l4) and l7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:07
L9	58	l7 and (authenticat$3 or hash$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:08

L10	0	I9 and (digital adj5 filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:08
L11	36	I9 and filter$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:13
L12	2	"6898756".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/31 16:13

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Inventor Name Search Result

Your Search was:

Last Name = FEKRI
First Name = FARAMARZ

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09268555	6898756	150	03/15/1999	SYSTEM AND METHOD FOR ENABLING EFFICIENT ERROR CORRECTION AND ENCRYPTION USING WAVELET TRANSFORMS OVER FINITE FIELDS	FEKRI, FARAMARZ
10627156	Not Issued	30	07/25/2003	Systems, methods and computer program products for encryption and decryption using wavelet transforms	FEKRI, FARAMARZ
60398506	Not Issued	159	07/25/2002	System and method for enabling efficient encryption and decryption using wavelet transforms over finite fields	FEKRI, FARAMARZ
60557172	Not Issued	159	03/29/2004	Family of asymmetric cryptosystems based on paraunitary matrices	FEKRI, FARAMARZ
60666995	Not Issued	159	03/31/2005	Family of asymmetric cryptosystems base on paraunitary matrices	FEKRI, FARAMARZ
60787487	Not Issued	20	03/30/2006	Family of asymmetric cryptosystems baes on paraunitary matrices	FEKRI, FARAMARZ

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on **Communications** and Multimedia Security,. CMS '96, pages 116–127, ...
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Systems, methods and computer program products for encryption and ...
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1. **Wavelet packet methods for multimedia compression and encryption**
   Pommer, A.; Uhl, A.;
   Communications, Computers and signal Processing, 2001. PACRIM. 2001 IEEE Pacific Rim Conference on
   Volume 1, 26-28 Aug. 2001 Page(s):1 - 4 vol.1
   IEEE CNF

2. **Joint image/video compression and encryption via high-order conditional entropy coding of wavelet coefficients**
   Xiaolin Wu; Moo, P.W.;
   Multimedia Computing and Systems, 1999. IEEE International Conference on
   Volume 2, 7-11 June 1999 Page(s):908 - 912 vol.2
   IEEE CNF

3. **Image encryption for secure Internet multimedia applications**
   Dang, P.P.; Chau, P.M.;
   Consumer Electronics, IEEE Transactions on
   Volume 46, Issue 3, Aug. 2000 Page(s):395 - 403
   IEEE JNL

4. **A secure and robust digital watermarking technique by the block cipher RC6 and secure hash algorithm**
   Yong-Cong Chen; Long-Wen Chang;
   Image Processing, 2001. Proceedings. 2001 International Conference on
   Volume 2, 7-10 Oct. 2001 Page(s):518 - 521 vol.2
   IEEE CNF

5. **Image encryption for secure Internet multimedia applications**
   Dang, P.P.; Chau, P.M.;
   Consumer Electronics, 2000. ICCE. 2000 Digest of Technical Papers. International Conference on
   13-15 June 2000 Page(s):6 - 7
   IEEE CNF

6. **Uncertainty principles and ideal atomic decomposition**
   Donoho, D.L.; Huo, X.;
   Information Theory, IEEE Transactions on
   Volume 47, Issue 7, Nov. 2001 Page(s):2845 - 2862
   IEEE JNL

7. **A novel symmetric cryptography based on the hybrid Haar wavelets encoder and chaotic masking scheme**
   Luo, R.C.; Long-Yeu Chung; Chang-Hua Lien;
   Industrial Electronics, IEEE Transactions on
   Volume 49, Issue 4, Aug. 2002 Page(s):933 - 944
   IEEE JNL

8. **A watermarking algorithm based on chaotic encryption**
   Weiwei Xiao; Zhen Ji; Xhong Zhang; Weiying Wu;
   TENCON '02. Proceedings. 2002 IEEE Region 10 Conference on Computers, Communications, Control and Power Engineering
   Volume 1, 28-31 Oct. 2002 Page(s):545 - 548 vol.1
   IEEE CNF

9. **An automatic video-object based steganographic system for multi-use message hiding using wavelet transform**

Ntalianis, K.S.; Doulamis, N.D.; Doulamis, A.D.; Kollias, S.D.;
Systems, Man and Cybernetics, 2002 IEEE International Conference on
Volume 3, 6-9 Oct. 2002 Page(s):6 pp. vol.3
IEEE CNF

10. **A robust steganographic wavelet-based system for resistant message hiding under error prone networks**
Ntalianis, K.S.; Doulamis, A.D.; Doulamis, N.D.; Kollias, S.D.;
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IEEE CNF

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Sin-Joo Lee; Sung-Hwan Jung;
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Volume 1, 12-16 June 2001 Page(s):272 - 277 vol.1
IEEE CNF

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Cheng, H.; Xiaobo Li;
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IEEE JNL

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Lafe, O.;
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4-5 Nov. 1996 Page(s):234 - 241
IEEE CNF

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Silva, C.P.; Young, A.M.;
Aerospace Conference Proceedings, 2000 IEEE
Volume 1, 18-25 March 2000 Page(s):279 - 299 vol.1
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1   Efficient frequency domain video scrambling for content access control   ■
Wenjun Zeng, Shawmin Lei
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**
Publisher: ACM Press
Full text available: 📄 pdf(1.65 MB)   Additional Information: full citation, abstract, references, index terms

Multimedia data security is very important for multimedia commerce on the Internet such as video-on-demand and real-time video multicast. Traditional cryptographic algorithms for data security are often not fast enough to process the vast amount of data generated by the multimedia applications to meet the real-time constraints. This paper presents a joint encryption and compression framework in which video data are scrambled efficiently in the frequency domain by employing selective bit scr ...

Keywords: compression, content access control, multimedia commerce, multimedia encryption, multimedia security, selective encryption, video scrambling

2   Secure data hiding in wavelet compressed fingerprint images   ■
Nalini K. Ratha, Jonathan H. Connell, Ruud M. Bolle
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**
Publisher: ACM Press
Full text available: 📄 pdf(688.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the rapid growth of the Internet, electronic commerce revenue now amounts to several billion US dollars. To avoid fraud and misuse, buyers and sellers desire more secure methods of authentication than today's userid and password combinations. Automated biometrics technology in general, and fingerprints in particular, provide an accurate and reliable authentication method. However, fingerprint-based authentication requires accessing fingerprint images scanned remotely at the user's workst ...

Keywords: WSQ compression, authentication, biometrics, data hiding, fingerprints, watermarking

3   Methods for encrypting and decrypting MPEG video data efficiently   ■
Lei Tang
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: 📄 pdf(1.45 MB)   Additional Information: full citation, references, citings, index terms

Keywords: MPEG codec, compression, multimedia commerce, multimedia encryption, multimedia security

4 Hardware-software co-design of embedded reconfigurable architectures
Yanbing Li, Tim Callahan, Ervan Darnell, Randolph Harr, Uday Kurkure, Jon Stockwood
June 2000 **Proceedings of the 37th conference on Design automation**
Publisher: ACM Press

Full text available: pdf(114.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe a new hardware/software partitioning approach for embedded reconfigurable architectures consisting of a general-purpose processor (CPU), a dynamically reconfigurable datapath (e.g. an FPGA), and a memory hierarchy. We have developed a framework called Nimble that automatically compiles system-level applications specified in C to executables on the target platform. A key component of this framework is a hardware/software partitioning algorithm that performs fine-gra ...

5 Java driven codesign and prototyping of networked embedded systems
Josef Fleischmann, Klaus Buchenrieder, Rainer Kress
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**
Publisher: ACM Press
Full text available: pdf(69.24 KB)   Additional Information: full citation, references, citings, index terms

6 Has our curriculum become math-phobic? (an American perspective)
Charles Kelemen, Allen Tucker, Peter Henderson, Owen Astrachan, Kim Bruce
July 2000 **ACM SIGCSE Bulletin , Proceedings of the 5th annual SIGCSE/SIGCUE ITiCSEconference on Innovation and technology in computer science education ITiCSE '00**, Volume 32 Issue 3
Publisher: ACM Press

Full text available: pdf(468.58 KB)   Additional Information: full citation, abstract, references, citings, index terms

We are concerned about a view in undergraduate computer science education, especially in the early courses, that it's okay to be math-phobic and still prepare oneself to become a computer scientist. Our view is the contrary: that any serious study of computer science requires students to achieve mathematical maturity (especially in discrete mathematics) early in their undergraduate studies, thus becoming well-prepared to integrate mathematical ideas, notations, and methodologies throughout their ...

7 Coding and Encryption: An image watermarking technique using pyramid transform
Qiang Cheng, Thomas S. Huang
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**
Publisher: ACM Press

Full text available: pdf(1.90 MB)   Additional Information: full citation, abstract, references, citings, index terms

An image watermarking technique based on pyramid transforms is proposed. An arbitrary binary pattern is formed into an effective hypothesized pattern and transmitted as a watermark. Multiresolution pyramid transforms are applied to host images, whose characteristics are exploited to embed the watermark. The detector is designed to be effective to a wide range of original signal sources and noise sources. The scheme is designed to achieve efficient trade-offs between perceptual invisibility, robu ...

Keywords: pyramid transfrom, verification coding, watermarking

8 Region-based caching: an energy-delay efficient memory architecture for embedded processors
Hsien-Hsin S. Lee, Gary S. Tyson
November 2000 **Proceedings of the 2000 international conference on Compilers, architecture, and synthesis for embedded systems**
Publisher: ACM Press
Full text available: pdf(313.57 KB)   Additional Information: full citation, citings

9 Structural digital signature for image authentication: an incidental distortion resistant scheme
Chun-Shien Lu, Hong-Yuan Mark Liao
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**
Publisher: ACM Press

Full text available: pdf(684.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

The existing digital data authentication methods are able to detect tampered regions, but are too fragile to resist incidental distortions. This paper will present a new digital signature scheme for image authentication by making use of image content (in the wavelet domain). Based on this concept, a structural digital signature (*SDS*) is constructed. *SDS* is a signature that can be used to judge whether an incoming modification is incidental or malicious. When the structure of an ...

Keywords: authentication, digital signature, fragility, robustness, wavelet transform

10 Multimedia and graphics: Cool-cache for hot multimedia
Osman S. Unsal, Raksit Ashok, Israel Koren, C. Mani Krishna, Csaba Andras Moritz
December 2001 **Proceedings of the 34th annual ACM/IEEE international symposium on Microarchitecture**
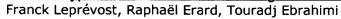**Publisher:** IEEE Computer Society
Full text available: pdf(970.61 KB)
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We claim that the unique characteristics of multimedia applications dictate media-sensitive architectural and compiler approaches to reduce the power consumption of the data cache. Our motivation is exploring energy savings for real-time multimedia workloads without sacrificing performance. Here, we present two complementary media-sensitive energy-saving techniques that leverage static information. While our first technique is applicable to existing architectures, in our second technique we adop ...

11 How to bypass the Wassenaar arrangement: a new application for watermarking
Franck Leprévost, Raphaël Erard, Touradj Ebrahimi
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**
Publisher: ACM Press
Full text available: pdf(419.24 KB)   Additional Information: full citation, abstract, references, index terms

The scope of this article is to clarify the current legal and political situation related to electronic surveillance on the one hand, and to export regulations for encryption software on the other hand. We will look at different international agreements, such as the UKUSA agreement and the Wassenaar arrangement, and elaborate on current encryption techniques falling under these regulations. This discussion is then followed by introducing the basic concepts of steganography and digital waterma ...

Keywords: Wassenaar arrangement, cryptography, steganography, watermarking

12 MediaBench: a tool for evaluating and synthesizing multimedia and communicatons

systems
Chunho Lee, Miodrag Potkonjak, William H. Mangione-Smith
December 1997 **Proceedings of the 30th annual ACM/IEEE international symposium on Microarchitecture**
Publisher: IEEE Computer Society
Full text available: pdf(726.33 KB)   Additional Information: full citation, abstract, references, citings, index terms
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Significant advances have been made in compilation technology for capitalizing on instruction-level parallelism (ILP). The vast majority of ILP compilation research has been conducted in the context of general-purpose computing, and more specifically the SPEC benchmark suite. At the same time, a number of microprocessor architectures have emerged which have VLIW and SIMD structures that are well matched to the needs of the ILP compilers. Most of these processors are targeted at embedded applicat ...

Keywords: MediaBench, SIMD, SPEC benchmark suite, VLIW, benchmark suite, communications systems, compilation technology, embedded applications, experimental measurement, general-purpose computing, general-purpose systems, inner-loops, instruction-level parallelism, microprocessor architectures, multimedia systems, optimization

13 vic: a flexible framework for packet video
Steven McCanne, Van Jacobson
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: html(67.64 KB)   Additional Information: full citation, references, citings, index terms

Keywords: conferencing protocols, digital video, image and video compression and processing, multicasting, networking and communication

14 Web based image authentication using invisible Fragile watermark
Yusuk Lim, Changsheng Xu, David Dagan Feng
May 2001 **Proceedings of the Pan-Sydney area workshop on Visual information processing - Volume 11 VIP '01**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(118.43 KB)   Additional Information: full citation, abstract, references, index terms

The demand of security is getting higher in these days due to easy reproduction of digitally created multimedia data. Digital watermark is the emerging technique to embed secret information into content for copyright protection and authentication. Watermark is embedded within an image that alteration and modification to the watermarked image can be detected in a fragile watermark system. Watermark detection is blind that does not require an original image and it is invisible to avoid revealing s ...

Keywords: authentication, client-server, watermark

15 Algorithm 781: generating Hilbert's space-filling curve by recursion
Greg Breinholt, Christoph Schierz
June 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(96.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

An efficient algorithm for the generation of Hilbert's space-filling curve is given. The algorithm implements a recursive procedure that involves simple integer operations and quickly converges to the set of points that make the Hilbert curve. The algorithm is

elegant, short, and considerably easier to implement than previous recursive and nonrecursive algorithms and can be efficiently implemented in all programming languages that have integer operations and allow recursion. The fundamental ...

Keywords: recursion

16 Layered transmission and caching for the multicast session directory service

Andrew Swan, Steven McCanne, Lawrence A. Rowe
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(1.32 MB)   Additional Information: full citation, references, citings, index terms

17 DeepView: a channel for distributed microscopy and informatics

B. Parvin, J. Taylor, G. Cong, M. A. OKeefe, M. H. Barcellos-Hoff
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: ACM Press
Full text available: pdf(2.69 MB)   Additional Information: full citation, references, citings, index terms

18 Digital watermarking makes its mark

Hal Berghel
September 1998 **netWorker**, Volume 2 Issue 4
Publisher: ACM Press
Full text available: pdf(617.64 KB)   Additional Information: full citation, references, citings, index terms

19 An application level video gateway

Elan Amir, Steven McCanne, Hui Zhang
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: htm(54.34 KB)   Additional Information: full citation, references, citings, index terms

Keywords: conferencing protocols, digital video, efficient transcoding, image and video compression and processing, multicasting, networking and communication

20 Development of processors and communication networks for embedded systems: Traffic analysis for on-chip networks design of multimedia applications

Girish Varatkar, Radu Marculescu
June 2002 **Proceedings of the 39th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(302.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

The objective of this paper is to introduce self-similarity as a fundamental property exhibited by the bursty traffic between on-chip modules in typical MPEG-2 video applications. Statistical tests performed on relevant traces extracted from common video clips establish unequivocally the existence of self-similarity in video traffic. Using a generic communication architecture, we also discuss the implications of our findings on on-chip buffer space allocation and present quantitative evaluations ...

Keywords: communication analysis, long-range dependence, on-chip networks, self-

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21 Watermarking while preserving the critical path   ▭
Seapahn Meguerdichian, Miodrag Potkonjak
June 2000 **Proceedings of the 37th conference on Design automation**
Publisher: ACM Press

Full text available: 🗎 pdf(183.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

In many modern designs, timing is either a key optimization goal and/or a mandatory constraint. We propose the first intellectual property protection technique using watermarking that guarantees preservation of timing constraints by judiciously selecting parts of the design specification on which watermarking constraints can be imposed. The technique is applied during the mapping of logical elements to instances of realization elements in a physical library. The generic technique is ...

22 A methodology and algorithms for the design of hard real-time multitasking ASICs   ▭
Miodrag Potkonjak, Wayne Wolf
October 1999 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 4 Issue 4
Publisher: ACM Press

Full text available: 🗎 pdf(198.48 KB)   Additional Information: full citation, abstract, references, index terms, review

Traditional high-level synthesis concentrates on the implementation of a single task (e.g. filter, linear controller, A/D converter). However, many applications—multifunctional embedded controllers intelligent wireless end-points, and DSP and multimedia servers— are defined as sets of several computational tasks. This paper describes new techniques for the synthesis of ASIC implementations that realize multiple computational processes under hard real-time constraints. Our synthes ...

23 Behavioral synthesis techniques for intellectual property protection   ▭
Inki Hong, Miodrag Potkonjak
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**
Publisher: ACM Press
Full text available: 🗎 pdf(157.64 KB)   Additional Information: full citation, references, citings, index terms

24 Protecting digital media content   ▭
Nasir Memon, Ping Wah Wong
July 1998 **Communications of the ACM**, Volume 41 Issue 7
Publisher: ACM Press

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